

High Power Platform

Improve outcomes and quality of life for patients living with high power implantables like VADs, TAHs, and drug delivery pumps.



Deliver 10-15 W to power implants without drivelines.



Free patients to move around while charging with greater misalignment and real-time charge control.



Safely recharge the implanted battery from outside the body.

The Difference Inside

Cardessa™ is built on our industry-leading wireless technology platform, Aurion WPT™, which combines core innovations in coils, power electronics, magnetics, and data transfer capabilities.

Get unprecedented performance and a faster, lower-risk path to market for your device. Reach out to discuss what's possible for you.

SPECIFICATIONS:

Applications	High-power implantable medical devices such as ventricular assist devices (VADs), total artificial hearts (TAHs), and drug delivery pumps.
Output Power	10-15 W
Output Voltage and Current	Customer defined
Input Voltage	12-18 V
Efficiency	88% nominal efficiency 75% minimum efficiency
Tissue Temperature	< 3°C at 15 W for 120 minutes < 2°C at 10 W for steady state Compliant with ISO 14708
External Hub Dimensions	80 mm diameter; multiple height options available Coil and power electronics included
Implant Dimensions	60 mm diameter; multiple height options available Coil and power electronics included
Implant Depth	1-3 cm
Misalignment	± 3 cm misalignment, up to 20° tilt
Operating Frequency	6.78 MHz, within ISM band
Data Throughput	5 kb/s unidirectional from transmitter to receiver
MRI Compatible	No
Battery Compatibility	Any

Contact info@rlmedical.com with questions or for more information.



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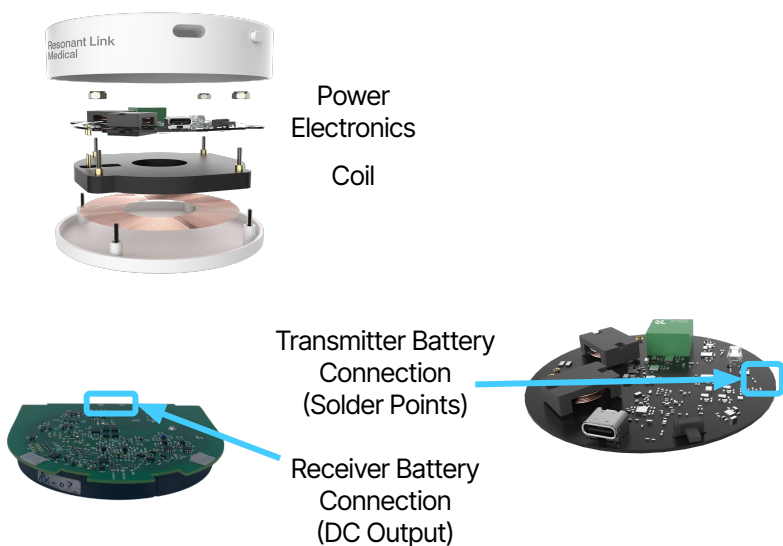
What's Included:

1. **Transmitter Coil and Power Electronics** - creates the magnetic field that is picked up by the Implanted Receiver and charges the battery. The transmitter is housed in a customer-provided enclosure and connects to a customer-provided rechargeable battery.
2. **Receiver Coil and Power Electronics** - converts power from the transmitter and charges the implanted battery, while sending charge status data to the transmitter.

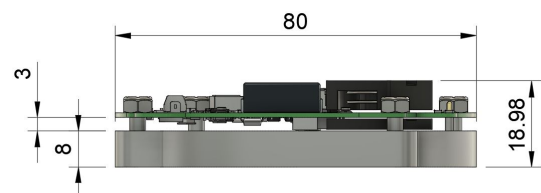
Customer-Provided Components:

1. **Implant Enclosure, Pump, Battery, and Leads** - a hermetically sealed enclosure, implant battery, pump, and biocompatible wire connecting the implanted receiver, battery, and pump are provided by the customer. Resonant Link Medical provides support to integrate power components into your device.
2. **External Enclosure, Battery, and Recharging Components** - external packaging, battery, and recharging components are typically provided by the customer to meet device specifications. Resonant Link Medical provides support to integrate power components.

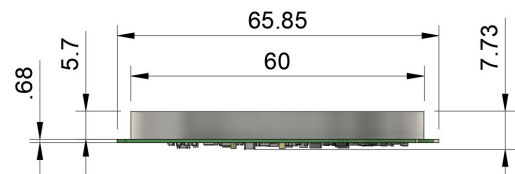
Components and Connection Points ↓



Transmitter side view ↓



Receiver side view ↓



* Measurements are in mm

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